EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	20	"5723616"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:29
L2	3	"2002018319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR .	OFF	2007/04/24 14:07
L3	2	"20020018319" 	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:31
L4	2	"200218319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:31
L5	0	"200200018319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:31
L6	335	alzheimer and 514/278.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:13
L7	152	l6 and @py<"2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:10
L8	18	I7 and (growth adj hormone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:13
L9	112	alzheimer and 514/570.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:13

EAST Search History

L10	4	I9 and (secretase adj inhibitor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:14
S1	5	"2004080459"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 08:29
S2	5	"2004045592"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 08:35
S3	5	"2004031137"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF.	2007/04/24 08:38
S4	4	"2003018543"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:26

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FILE 'HOME' ENTERED AT 08:11:18 ON 24 APR 2007

=> file reg

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 22 APR 2007 HIGHEST RN 931834-80-9 DICTIONARY FILE UPDATES: 22 APR 2007 HIGHEST RN 931834-80-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

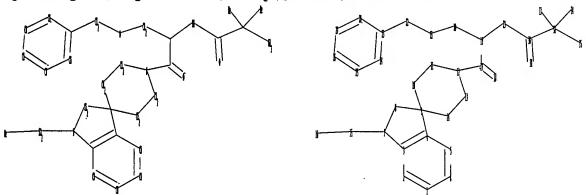
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

Uploading C:\Program Files\Stnexp\Queries\10560092A.str



chain nodes :

15 16 17 18 19 20 21 22 29 30 31 32 33

ring nodes :

1 2 3 4 5 9 10 11 12 13 14 23 25 26 27

chain bonds :

7-15 12-17 15-16 17-18 17-19 19-20 19-29 20-21 21-22 22-23 29-30 30-32 32-33 32-34 32-35

ring bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-9 5-6 7-8 8-9 9-10 9-14 10-11 11-12 13-14 23-24 23-28 24-25 25-26 27-28 26-27

exact/norm bonds :

3-7 4-9 7-8 7-15 8-9 9-10 9-14 10-11 11-12 12-13 12-17 13-14 17-18

19-29 29-30 30-31 32-35

exact bonds :

15-16 17-19 19-20 20-21 21-22 22-23 30-32 32-33

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 23-24 23-28 24-25 25-26 26-27 27-28

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 35:CLASS

L1 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

18 ANSWERS

=> s l1 full

FULL SEARCH INITIATED 08:12:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 257 TO ITERATE

100.0% PROCESSED 257 ITERATIONS

SEARCH TIME: 00.00.01

L2 18 SEA SSS FUL L1

Uploading C:\Program Files\Stnexp\Queries\10560092B.str

chain nodes :

7 8 16 17 23 24

ring nodes :

1 2 3 4 5 6 9 10 11 12 13 14 15 18 19 20 21 22

chain bonds :

3-7 6-8 8-9 9-10 11-17 14-16 20-23 23-24
ring bonds:
1-2 1-6 2-3 3-4 4-5 5-6 9-18 9-22 10-11 10-15 11-12 12-13 13-14 14-15
18-19 19-20 20-21 21-22
exact/norm bonds:
9-18 9-22 18-19 19-20 20-21 21-22
exact bonds:
3-7 6-8 8-9 9-10 11-17 14-16 20-23 23-24
normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS

L3 STRUCTURE UPLOADED

=> d 13 L3 HAS NO ANSWERS L3 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 13 full FULL SEARCH INITIATED 08:12:55 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 744 TO ITERATE

100.0% PROCESSED 744 ITERATIONS 1 ANSWERS SEARCH TIME: 00.00.01

L4 1 SEA SSS FUL L3

=> d 12 1

L2 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2007 ACS on STN

RN 817203-70-6 REGISTRY

ED Entered STN: 20 Jan 2005

CN Propanamide-3,3,3-t3, 2-amino-N-[(1R)-2-[1,2-dihydro-1(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1[(phenylmethoxy)methyl]ethyl]-2-(methyl-t3)-, monomethanesulfonate (9CI)
(CA INDEX NAME)

FS STEREOSEARCH

MF C27 H30 N4 O5 S T6 . C H4 O3 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 817203-69-3

CMF C27 H30 N4 O5 S T6

Absolute stereochemistry.

CM 2

CRN 75-75-2 CMF C H4 O3 S

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 471903-69-2 REGISTRY

ED Entered STN: 08 Nov 2002

CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5difluorophenyl)-, cis- (CA INDEX NAME)

OTHER NAMES:

CN [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid

FS STEREOSEARCH

MF C20 H19 Cl F2 O4 S

SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE) 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 349.45 349.66

FULL ESTIMATED COST

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FILE COVERS 1907 - 24 Apr 2007 VOL 146 ISS 18 FILE LAST UPDATED: 23 Apr 2007 (20070423/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12 and 14

136 L2

5 L4

L5

0 L2 AND L4

=> s 12 and alzheimer

136 L2

44478 ALZHEIMER

L6 15 L2 AND ALZHEIMER

=> s 14 and alzheimer

5 L4

44478 ALZHEIMER

L7 4 L4 AND ALZHEIMER

=> dup rem 16 17

PROCESSING COMPLETED FOR L6

PROCESSING COMPLETED FOR L7

19 DUP REM L6 L7 (0 DUPLICATES REMOVED)

=> s 12 and (neurodegenerative or cognitive or dementia)

136 L2

17788 NEURODEGENERATIVE

19924 COGNITIVE

13813 DEMENTIA

L9 15 L2 AND (NEURODEGENERATIVE OR COGNITIVE OR DEMENTIA)

=> s 14 and (neurodegenerative or cognitive or dementia)

5 L4

17788 NEURODEGENERATIVE

19924 COGNITIVE

13813 DEMENTIA

L10 O L4 AND (NEURODEGENERATIVE OR COGNITIVE OR DEMENTIA)

=> dup rem 18 19

PROCESSING COMPLETED FOR L8

PROCESSING COMPLETED FOR L9

20 DUP REM L8 L9 (14 DUPLICATES REMOVED)

=> d ed abs ibib hitstr 1-

YOU HAVE REQUESTED DATA FROM 20 ANSWERS - CONTINUE? Y/(N):V

L11 ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

ED Entered STN: 16 Feb 2007

GI

Title compds. I [X = B-A-(L)i; B = alkylene with provisos; A = aryl,AB heteroaryl; L = H, halo, OH, etc.; i = 0-3; R1 = H, alkyl, alkenyl, etc.; R2 = alkyl, alkenyl, alkynyl, etc.; R3, R4 = H, alkyl, F, etc.; R5 = H, alkyl, alkenyl, etc.; R6 = alkenyl, alkynyl, cycloalkyl, etc.; R7 = H, alkyl, alkenyl, etc.] and their pharmaceutically acceptable salts and formulations were prepared For example, isophthalamide II was prepared from Me 2-aminoisophthalate in 9-steps. Compds. I are claimed useful as

β-secretase inhibitors. ACCESSION NUMBER: 2007:175504 HCAPLUS DOCUMENT NUMBER: 146:251613 TITLE: Preparation of isophthalamides for the treatment of Alzheimer's disease INVENTOR(S): Fuchs, Klaus; Eickmeier, Christian; Heine, Niklas; Peters, Stefan; Dorner-Ciossek, Cornelia; Handschuh, Sandra; Nar, Herbert; Klinder, Klaus Boehringer Ingelheim International GmbH, Germany; PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma Gmbh & Co. KG PCT Int. Appl., 223pp. SOURCE: CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: German FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. APPLICATION NO. KIND DATE -------------------WO 2007017511 WO 2006-EP65157 A2 20070215 20060808 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

APPLN. INFO: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, PRIORITY APPLN. INFO.: EP 2005-17475 A 20050811 OTHER SOURCE(S): MARPAT 146:251613 159752-10-0, Ibutamoren mesylate RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (medicaments with; preparation of isophthalamides for the treatment of Alzheimer's disease) 159752-10-0 HCAPLUS
Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-RN CN indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2methyl-, methanesulfonate (1:1) (CA INDEX NAME) CM 159634-47-6 CRN

Absolute stereochemistry.

C27 H36 N4 O5 S

CMF

CRN 75-75-2 CMF C H4 O3 S

L11 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2 ED Entered STN: 16 Feb 2007 GI

AB Title compds. I [X = B-A-(L)i; B = alkylene with provisos; A = aryl, heteroaryl; L = H, halo, OH, etc.; i = 0-3; R1 = H, alkyl, alkenyl, etc.; R2 = alkyl, alkenyl, alkynyl, etc.; R3, R4 = H, alkyl, F, etc.; R5 = H, alkyl, alkenyl, etc.; R6 = alkenyl, alkynyl, cycloalkyl, etc.; R7 = H, alkyl, alkenyl, etc.] and their pharmaceutically acceptable salts and formulations were prepared For example, the TFA salt of isophthalamide II was prepared from Me 2-aminoisophthalate in 5-steps. Compds. I are claimed useful as β-secretase inhibitors.

ACCESSION NUMBER: 2007:175501 HCAPLUS

DOCUMENT NUMBER: 146:251612

TITLE: Preparation of isophthalamides for the treatment of

Alzheimer's disease

DATE

INVENTOR(S): Heine, Niklas; Fuchs, Klaus; Eickmeier, Christian;

Peters, Stefan; Dorner-Ciossek, Cornelia; Handschuh,

APPLICATION NO.

Sandra; Nar, Herbert; Klinder, Klaus

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany;

Boehringer Ingelheim Pharma Gmbh & Co. KG

SOURCE: PCT Int. Appl., 153pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent German

LANGUAGE:

German

KIND

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

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WO 2007017510
                    A2
                          20070215
                                      WO 2006-EP65155
                                                             20060808
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       KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
       MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,
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    RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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       KG, KZ, MD, RU, TJ, TM
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PRIORITY APPLN. INFO.:

EP 2005-17478 A 20050811

DATE

OTHER SOURCE(S): MARPAT 146:251612

IT 159752-10-0, Ibutamoren mesylate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (medicaments with; preparation of isophthalamides for the treatment of Alzheimer's disease)

RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 159634-47-6 CMF C27 H36 N4 O5 S

CRN 75-75-2 CMF C H4 O3 S

L11 ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 3 ED Entered STN: 16 Feb 2007 GI

Title compds. [I; A = (substituted) (hetero)aryl; R = H, F, Cl, Br, iodo, AB OH, CO2H, CHO, cyano, NO2, CF3, etc.; n = 0-3; B = (substituted) alkylene; R1 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R2 = (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, etc.; R3, R4 = H, alkyl, F, CF3, CHF2, CH2F; R5 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.: R6 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R7 = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, etc.; R8 = H, F, Cl, Br, iodo, cyano, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R9 = H, F, Cl, Br, iodo, (substituted) alkyl, etc.], salts, diastereomers, enantiomers, racemates, hydrates and solvates thereof were prepared Thus, II (R10 = CO2H) in CH2Cl2 was treated with TBTU (O-(benzotriazol-1-yl)-N,N,N',N',-tertramethyluronium tetrafluoroborate), DIPEA (diisopropylethylamine), and 1-(pyrid-2-yl)ethylamine followed by stirring for 1 h at room temperature to give II (R10 = 1-(pyrid-2yl)ethylaminocarbonyl). Tested I inhibited β-secretase with IC50 <30 μΜ.

ACCESSION NUMBER: 2007:173914 HCAPLUS

DOCUMENT NUMBER: 146:251873

Preparation of heteroaryl 1,2-ethylenediamines as TITLE:

 β -secretase inhibitors for treatment of

ΙI

Alzheimer's disease

INVENTOR (S): Fuchs, Klaus; Eickmeier, Christian; Heine, Niklas;

Peters, Stefan; Dorner-Ciossek, Cornelia; Handschuh,

Sandra; Nar, Herbert; Klinder, Klaus

PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany;

Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.

PCT Int. Appl., 141pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007017509	A1	20070215.	WO 2006-EP65154	20060808

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             KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
             MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,
             SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,
             US, UZ, VC, VN, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.:
                                            EP 2005-17476
                                                                 A 20050811
OTHER SOURCE(S):
                         MARPAT 146:251873
     159752-10-0, Ibutamoren mesylate
IT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (coadministration; preparation of heteroaryl ethylenediamines as
        \beta-secretase inhibitors for treatment of Alzheimer's
        diseases)
RN
     159752-10-0 HCAPLUS
     Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-
CN
     indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-
     methyl-, methanesulfonate (1:1) (CA INDEX NAME)
```

CRN 159634-47-6 CMF C27 H36 N4 O5 S

Absolute stereochemistry.

CM 2

CRN 75-75-2 CMF C H4 O3 S

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4 ED Entered STN: 16 Feb 2007 GI

AB Title compds. [I; A = (substituted) (hetero)aryl; R = H, F, Cl, Br, I, OH, CO2H, CHO, cyano, NO2, CF3, etc.; n = 0-3; B = (substituted) alkylene; R1 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R2 = (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, etc.; R3, R4 = H, alkyl, F, CF3, CHF2, CH2F; R5 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R6 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R7 = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, etc.; R8 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R9 = H, F, Cl, Br, I, (substituted) alkyl, etc.], salts, diastereomers, enantiomers, racemates, hydrates and solvates thereof were prepd as β -secretase inhibitors (no data). Thus, II (R10 = CO2H) in CH2Cl2 was treated with TBTU (O-(benzotriazol-1-yl)-N,N,N',N',N',tertramethyluronium tetrafluoroborate), DIPEA (N-Etdiisopropylamine), and 1-(1-methyl-1H-pyrazol-4-yl)ethylamine under ice-cooling followed by stirring for 5 h at room temperature to give II (R10 =

1-(1-methyl-1H-pyrazol-4-

yl)ethylaminocarbonyl).

ACCESSION NUMBER:

2007:173532 HCAPLUS

DOCUMENT NUMBER:

146:251863

TITLE:

Preparation of substituted 1,2-ethylenediamines as

 β -secretase inhibitors for treatment of

Alzheimer's diseases

Eickmeier, Christian; Fuchs, Klaus; Heine, Niklas; INVENTOR(S):

Peters, Stefan; Dorner-Ciossek, Cornelia; Handschuh,

Sandra; Nar, Herbert; Klinder, Klaus

Boehringer Ingelheim International G.m.b.H., Germany; PATENT ASSIGNEE(S):

Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.

SOURCE: PCT Int. Appl., 143pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		ION NO.	
WO 2007017507	A1	20070215			
W: AE, AG, A	L, AM, AT,	, AU, AZ,	BA, BB, BG,	BR, BW, BY	, BZ, CA, CH,
CN, CO, C	R, CU, CZ,	, DE, DK,	DM, DZ, EC,	EE, EG, ES	S, FI, GB, GD,
GE, GH, G	M, HN, HR	, HU, ID,	IL, IN, IS,	JP, KE, KO	S, KM, KN, KP,
KR, KZ, L	A, LC, LK	, LR, LS,	LT, LU, LV,	LY, MA, MI	MG, MK, MN,
MW, MX, M	Z, NA, NG	, NI, NO,	NZ, OM, PG,	PH, PL, PT	r, RO, RS, RU,
SC, SD, S	E, SG, SK,	, SL, SM,	SY, TJ, TM,	TN, TR, TT	T, TZ, UA, UG,
us, uz, v	C, VN, ZA	, ZM, ZW			
RW: AT, BE, B	G, CH, CY,	, CZ, DE,	DK, EE, ES,	FI, FR, GE	B, GR, HU, IE,
					(, TR, BF, BJ,
CF, CG, C	I, CM, GA,	, GN, GQ,	GW, ML, MR,	NE, SN, TI	, TG, BW, GH,
					, AM, AZ, BY,
	D, RU, TJ				
ORITY APPLN. INFO.:			EP 2005-	17477	A 20050811
ER SOURCE(S):	MARPAT	146:25186	53		

PRIO

OTHER SOURCE(S):

159752-10-0, Ibutamoren mesylate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of substituted ethylenediamines as β -secretase inhibitors for treatment of Alzheimer's diseases)

RN 159,752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3Hindole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM

CRN 159634-47-6 CMF C27 H36 N4 O5 S

CRN 75-75-2 CMF C H4 O3 S

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Ι

L11 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 5 ED Entered STN: 09 Feb 2007 GI

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

AB The invention relates to compds. R1CONHCHR3CONR4CHR5CONHCHR6CH2NHCHR7CONHR 2 [R1 is (hetero)alkyl, cycloalkyl, aryl, heteroaryl; R2 is alkyl,

cycloalkyl, aryl, heterocyclyl, heteroaryl; R3, R6, R7 are alkyl, cycloalkyl, aryl; R4 is H, alk(en)(yn)yl, cycloalkyl; R5 is alkyl, cycloalkyl, aryl, heteroaryl; groups R1-R7 may be substituted], including pharmaceutically-acceptable salts, enantiomers, diastereomers, etc., for use in treating or preventing Alzheimer's disease and similar diseases. Thus, peptide I was prepared by the solid-phase method and used in the preparation of a pharmaceutical formulation. 2007:150718 HCAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER: 146:229613

TITLE: Preparation of peptide 1,2-ethanediamine derivatives

for the treatment of Alzheimer's disease

INVENTOR(S): Peters, Stefan; Eickmeier, Christian; Fuchs, Klaus;

Stransky, Werner; Dorner-Ciossek, Cornelia; Kostka, Marcus; Handschuh, Sandra; Nar, Herbert; Bornemann,

Klaus; Klinder, Klaus; Bauer, Margit

Boehringer Ingelheim International GmbH, Germany; PATENT ASSIGNEE(S):

Boehringer Ingelheim Pharma Gmbh & Co. KG

SOURCE: PCT Int. Appl., 107pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIN	D DATE	:	P	APP1	[CAT]	ON I	10.		D?	ATE	
				-								
WO 2007014946	A1	2007	0208	M	10 20	06-E	EP648	385		20	0608	301
W: AE, A	G, AL, AM,	AT, AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
CN, C	O, CR, CU,	CZ, DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
GE, G	H, GM, HN,	HR, HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,
KR, K	Z, LA, LC,	LK, LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,
MW, M	X, MZ, NA,	NG, NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,
SC, S	D, SE, SG,	SK, SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,
US, U	Z, VC, VN,	ZA, ZM,	ZW									
RW: AT, B	E, BG, CH,	CY, CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
IS, I	r, LT, LU,	LV, MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
	G, CI, CM,											
GM, K	E, LS, MW,	MZ, NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
KG, K	z, MD, RU,	TJ, TM										

PRIORITY APPLN. INFO.:

EP 2005-16866 A 20050803

MARPAT 146:229613 OTHER SOURCE(S):

159752-10-0, Ibutamoren mesylate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of peptide 1,2-ethanediamine derivs. for the treatment of Alzheimer's disease)

ŔŊ 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3Hindole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM

CRN 159634-47-6 CMF C27 H36 N4 O5 S

CRN 75-75-2 CMF C H4 O3 S

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 6 ED Entered STN: 06 Oct 2006 GI

AB The invention relates to substituted 1,2-ethylenediamines I [A is aryl or heteroaryl which may be substituted; B is C1-4-alkylene or oxyalkylene; R1, R2, R5-R9 are H, (un) substituted alkyl, (hetero) aryl, etc. (but R2 is not H); R3, R4 are H, alkyl, F, CF3, CHF2, CH2F; X1-X4 are N, C or substituted carbon (0-3 of these groups are N)], including tautomers, diastereomers, enantiomers, and salts, and their use in the treatment of Alzheimer's disease (AD) and similar diseases. Thus, peptide II was prepared by a multistep sequence using reactants which include di-Me 5-aminoisophthalate, (R)-1-phenylethylamine, and protected amino acids. Compds. of the invention listed in a table have IC50 values < 30 µM in the β -secretase inhibition assay.

ACCESSION NUMBER: 2006:1041179 HCAPLUS

DOCUMENT NUMBER: 145:419471

TITLE: Preparation of peptide 1,2-ethylenediamine derivatives

for the treatment of Alzheimer's disease

INVENTOR (S): Eickmeier, Christian; Fuchs, Klaus; Peters, Stefan;

Dorner-Ciossek, Cornelia; Heine, Niklas; Handschuh,

Sandra; Klinder, Klaus; Kostka, Marcus

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany;

Boehringer Ingelheim Pharma Gmbh & Co. KG

PCT Int. Appl., 325pp. SOURCE:

Patent

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT 1	NO.			KIN	ס	DATE			APPL	ICAT:	ION I	. 00		D	ATE	
 พ∩	2006	1030	38			-	2006	1005	1		006-				2.	0060	
WO 2006103038 W: AE, AG, AL,														_			
	W .				•		•			•	•	•	•	•	•		•
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	ĿΤ,	GB,	GD,
		GE,	GH,	GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	ΚP,	KR,
		KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
		ΜZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
		SG,	SK,	SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	ŪĠ,	US,	UZ,	VC,
		VN,	YU,	ZA,	ZM,	zw											
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
							GN,										
								SD,									

KG, KZ, MD, RU, TJ, TM

US 2006223759 A1 20061005 US 2006-278059 20060330 PRIORITY APPLN. INFO.: EP 2005-6939 A 20050330

OTHER SOURCE(S): MARPAT 145:419471

IT 159752-10-0, Ibutamoren mesylate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of peptide ethylenediamine derivs. for treatment of Alzheimer's disease)

RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 159634-47-6 CMF C27 H36 N4 O5 S

Absolute stereochemistry.

CM 2

CRN 75-75-2 CMF C H4 O3 S

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 18 Sep 2006

AB A review. Growth hormone (GH) is a pleiotropic hormone that is released from the pituitary in a pulsatile manner to promote body growth and fat mobilization and inhibit glucose utilization. The hormone interacts with most tissues of the body and there are therefore numerous pathol.

endocrine and metabolic conditions that involve or are due to faulty GH secretion. Recombinant GH has been used to treat many of these conditions, but it must be administered by injection and is associated with a number of adverse events. Researchers have speculated that synthetic GH secretagogues (GHSs) may be more effective than recombinant GH in inducing physiol. pulsatile GH secretion and have focused on identifying novel GHSs to be used clin. One promising GHS is the orally active, nonpeptide spironindolinesulfonamide ibutamoren mesilate (MK-0677, L-163194). The agent has exhibited good oral activity and duration of action and was effective clin. for a number of GH-related indications. Ibutamoren is now in phase II development for the treatment of fibromyalgia, Alzheimer 's disease and sarcopenia.

ACCESSION NUMBER: 2006:958466 HCAPLUS

DOCUMENT NUMBER: 146:308056

TITLE: Ibutamoren mesilate: growth hormone secretagogue

AUTHOR(S): Sorbera, L. A.; Bolos, J.; Serradell, N. CORPORATE SOURCE: Prous Science, Barcelona, 08080, Spain Drugs of the Future (2006), 31(5), 390-399

CODEN: DRFUD4; ISSN: 0377-8282

PUBLISHER: Prous Science

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

IT 159752-10-0P, Ibutamoren mesylate

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Crescendo, MK 0677; ibutamoren mesilate synthesis, pharmacol., pharmacokinetics and efficacy in treatment of fibromyalgia, Alzheimer's disease and sarcopenia in patients)

RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 159634-47-6 CMF. C27 H36 N4 O5 S

CRN 75-75-2 CMF C H4 O3 S

REFERENCE COUNT:

62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 29 Nov 2005

GI

Ι

AB The protease γ -secretase plays a pivotal role in the synthesis of pathogenic amyloid- β in Alzheimer's disease (AD). Here, we report a further extension to a series of cyclohexyl sulfone-based γ -secretase inhibitors which has allowed the preparation of highly potent compds. which also demonstrate robust $A\beta(40)$ lowering in vivo (e.g., compound I, MED 1 mg/kg p.o. in APP-YAC mice).

ACCESSION NUMBER: 2005:1251592 HCAPLUS

DOCUMENT NUMBER: 144:80566

TITLE: 4-Substituted cyclohexyl sulfones as potent, orally

active γ -secretase inhibitors

AUTHOR (S): Churcher, Ian; Beher, Dirk; Best, Jonathan D.; Castro,

Jose L.; Clarke, Earl E.; Gentry, Amy; Harrison, Timothy; Hitzel, Laure; Kay, Euan; Kerrad, Sonia;

Lewis, Huw D.; Morentin-Gutierrez, Pablo;

Mortishire-Smith, Russell; Oakley, Paul J.; Reilly, Michael; Shaw, Duncan E.; Shearman, Mark S.; Teall, Martin R.; Williams, Susie; Wrigley, Jonathan D. J. Department of Medicinal Chemistry, The Neuroscience

CORPORATE SOURCE: Research Centre, Merck Sharp and Dohme Research

Laboratories, Harlow, Essex, CM20 2QR, UK

SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),

> 16(2), 280-284 CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal LANGUAGE: English OTHER SOURCE(S):

CASREACT 144:80566

IT 471903-69-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(cyclohexyl sulfones as γ -secretase inhibitors)

RN 471903-69-2 HCAPLUS

CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 7

ED Entered STN: 26 Aug 2005

GI

AB Title compds. I or II [R1 = H, (un) substituted alkyl, alkenyl, etc.; R2 = H, halo, SR6, etc.; R3 and R4 independently = H, (un) substituted alkynyl, cycloalkyl, etc.; R5 = H, (un) substituted aryl, arylalkyl, etc.; R6 = H, CHF2, CF3, etc.; X = (CH2)n; G = (un)substituted aryl, heterocycle or heteroaryl; Z = O or NR7; R7 = H, (un)substituted alkyl, alkenyl, etc.; n and m independently = 1-2] and their pharmaceutically acceptable salts, are prepared and disclosed as modulators of androgen receptor. Thus, e.g., III was prepared by hydrolysis of (2S,3R)-1-(3-chloro-4-cyano-2-methylphenylsulfamoyl)-3-hydroxy-pyrrolidine-2-carboxylic acid Me ester (preparation given) followed by cyclization. The activity of I was evaluated in transactivation assays of a transfected reporter construct and using the endogenous androgen receptor of the host cells (no data). I as modulator of androgen receptor should prove useful in the treatment of neoplasm, Alzheimer's disease and obesity. Pharmaceutical compns. comprising I are disclosed. ACCESSION NUMBER: 2005:902874 HCAPLUS

DOCUMENT NUMBER:

143:248277

TITLE:

Preparation of sulfonylpyrrolidines as modulators of

androgen receptor

INVENTOR(S):

Hamann, Lawrence H.; Bi, Yingzhi; Manfredi, Mark C.;

Nirschl, Alexandra A.; Sutton, James C.

PATENT ASSIGNEE(S):

Bristol-Myers Squibb Company, USA PCT Int. Appl., 91 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                          KIND
                                  DATE
                                              APPLICATION NO.
                                                                        DATE
                           ----
                                               -----
     WO 2005077925
                           A1
                                  20050825
                                              WO 2005-US2834
                                                                        20050202
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
              TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
              AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
              EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
              RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
              MR, NE, SN, TD, TG
                                              EP 2005-712320
     EP 1718626
                                  20061108
                           A1
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK, HR,
              IS, YU
PRIORITY APPLN. INFO.:
                                               US 2004-541869P
                                                                     P 20040204
                                               WO 2005-US2834
                                                                     W 20050202
OTHER SOURCE(S):
                           MARPAT 143:248277
     159752-10-0, MK-677
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (claimed co-drug; preparation of sulfonylpyrrolidines as modulators of
        androgen receptor)
     159752-10-0 HCAPLUS
     Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-
     indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-
     methyl-, methanesulfonate (1:1) (CA INDEX NAME)
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CM

IT

RN

CN

CRN 159634-47-6 CMF C27 H36 N4 O5 S

CRN 75-75-2 CMF C H4 O3 S

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 8

ED Entered STN: 30 Jun 2005

AB The invention provides the combination of a growth hormone secretagogue and a p38 kinase inhibitor for use in treatment or prevention of a disease associated with deposition of A β in the brain.

ACCESSION NUMBER:

2005:564579 HCAPLUS

DOCUMENT NUMBER:

143:71802

1

TITLE:

Growth hormone secretagogue-p38 kinase inhibitor

combination for the treatment of Alzheimer's

disease and related conditions

INVENTOR(S):

Castro Pineiro, Jose Luis

PATENT ASSIGNEE(S): SOURCE:

Merck Sharp & Dohme Limited, UK

PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT	NO.			KIN	D	DATE			APPL	ICAT	ION 1	NO.		D.	ATE	
WO	2005	0583	08		A2	-	2005	0630	1	WO 2	 004-	GB52:	 34		2	 0041:	214
WO	2005	0583	08		A3		2005	0915									
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

GB 2003-29275 A 20031218

OTHER SOURCE(S):

MARPAT 143:71802

IT 159634-47-6

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(growth hormone secretagogue-p38 kinase inhibitor combination for treatment of Alzheimer's disease and related conditions)

RN 159634-47-6 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L11 ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 9 ED Entered STN: 26 Aug 2005 GI

$$R^{2}$$
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 R^{5}
 R^{5

AB Title compds. I or II [R1 = H, (un) substituted alkyl, alkenyl, etc.; R2 = H, halo, SR6, etc.; R3 and R4 independently = H, (un) substituted alkynyl, cycloalkyl, etc.; R5 = H, (un)substituted aryl, arylalkyl, etc.; R6 = H, CHF2, CF3, etc.; X = (CH2)n; G = (un)substituted aryl, heterocycle or heteroaryl; Z = O or NR7; R7 = H, (un) substituted alkyl, alkenyl, etc.; n and m independently = 1-2] and their pharmaceutically acceptable salts, are prepared and disclosed as modulators of androgen receptor. Thus, e.q., III was prepared by hydrolysis of (2S,3R)-1-(3-chloro-4-cyano-2-methylphenylsulfamoyl)-3-hydroxy-pyrrolidine-2-carboxylic acid Me ester (preparation given) followed by cyclization. The activity of I was evaluated in transactivation assays of a transfected reporter construct and using the endogenous androgen receptor of the host cells (no data). I as modulator of androgen receptor should prove useful in the treatment of neoplasm, Alzheimer's disease and obesity. Pharmaceutical compns.

comprising I are disclosed.

ACCESSION NUMBER: 2005:904349 HCAPLUS

DOCUMENT NUMBER: 143:248278

TITLE: Preparation of sulfonylpyrrolidines as modulators of

androgen receptor

INVENTOR(S): Hamann, Lawrence G.; Bi, Yingzhi; Manfredi, Mark C.;

Nirschl, Alexandra A.; Sutton, James C.

PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 35 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

IT

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

159752-10-0

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
US 2005187267	A1	20050825	US 2005-48439	20050201		
PRIORITY APPLN. INFO.:			US 2004-541869P P	20040204		
OTHER SOURCE(S):	MARPAT	143:248278				

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (claimed co-drug; preparation of sulfonylpyrrolidines as modulators of androgen receptor)

RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 159634-47-6 CMF C27 H36 N4 O5 S

Absolute stereochemistry.

CM 2

CRN 75-75-2 CMF C H4 O3 S

L11 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 10 ED Entered STN: 19 Aug 2005 GI

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AB A method is provided for treating androgen receptor-associated conditions, such as age-related diseases, e.g. sarcopenia, employing a compound I [R1 =

CN, H; X = O, S; R2 = (substituted) alkyl, (substituted) cycloalkyl, etc;

R3, R4 = H, (substituted) alkyl, etc.; G = (substituted) aryl,

(substituted) heteroaryl], or a pharmaceutically acceptable salt or

prodrug ester thereof. Preparation of selected I is described. I may be used

in combination with other agents.

ACCESSION NUMBER: 2005:824492 HCAPLUS DOCUMENT NUMBER: 143:222525

TITLE: Method of using 3-cyano-4-arylpyridine derivatives as

modulators of androgen receptor function, preparation

thereof, and use with other agents

INVENTOR (S): Nirschl, Alexandra A.; Hamann, Lawrence G.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 25 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. ------US 2005182105 A1 20050818 US 2005-48437 20050201 PRIORITY APPLN. INFO.: US 2004-541780P 20040204

OTHER SOURCE(S): MARPAT 143:222525

IT 159752-10-0, MK-677

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(cyanoarylpyridine derivative modulators of androgen receptor function, preparation, and use with other agents)

RN

159752-10-0 HCAPLUS
Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-CN indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM • 1

CRN 159634-47-6 CMF C27 H36 N4 O5 S



L11 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 08 Sep 2005

AB GH-releasing peptides, including GHRP and morelin analogs, are claimed as neurite extension promoters for treatment of nerve system diseases,

including dementia, memory disorder, and paralysis.

ACCESSION NUMBER: 2005:975900 HCAPLUS

DOCUMENT NUMBER: 143:242039

TITLE: GH-releasing peptides as neurite extension promoters

for treatment of nerve system diseases

INVENTOR(S): Gomita, Hiroshi; Nikami, Kojiro; Shibata, Kazuhiko;

Kano, Yoshio

PATENT ASSIGNEE(S): Kaken Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005239712	Α	20050908	JP 2005-23536	20050131
PRIORITY APPLN. INFO.:			JP 2004-22778 A	20040130

IT 159752-10-0, MK 0677

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(GH-releasing peptides as neurite extension promoters for treatment of nerve system diseases)

RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 159634-47-6 CMF C27 H36 N4 O5 S

CRN 75-75-2 CMF C H4 O3 S

L11 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 11

ED Entered STN: 23 Dec 2004

AB There is disclosed the combination of a growth hormone secretagogue and at least one agent which modifies the production or processing of A β in the brain, said at least one agent being selected from: (a) compds. which inhibit the secretion of A β ; (b) compds. which selectively inhibit the secretion of the 1-42 isoform of A β ; (c) compds. which inhibit the aggregation of A β ; and (d) antibodies which selectively bind to A β ; for use in treatment or prevention of a disease associated with deposition of A β in the brain. The growth hormone secretagogue is especially N-[1(R)-[(1,2-dihydro-1-methanesulfonylspiro[3H-indole-3,4'-piperidin]-1'-yl)carbonyl]-2-(phenylmethyloxy)ethyl]-2-amino-2-

methylpropanamide. The amyloid modifier is especially R-flurbiprofen.

ACCESSION NUMBER: 2004:1124636 HCAPLUS

DOCUMENT NUMBER: 142:49251

TITLE: Growth hormone secretagogue combination with agent

modifying production or processing of $A\beta$ in brain

in treatment for Alzheimer's disease and

related conditions

INVENTOR(S): Castro Pineiro, Jose Luis

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK

SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                         KIND
                                DATE
                                          APPLICATION NO.
                                                                  DATE
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                                          WO 2004-GB2381
     WO 2004110443
                         A1
                                20041223
                                                                  20040604
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             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
            NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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            AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
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             SN, TD, TG
     AU 2004246849
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                          A1
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                          A1
                                20041223
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                                                                   20040604
     EP 1638563
                                                                  20040604
                         A1
                                20060329
                                           EP 2004-736079
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
     CN 1805746
                         Α
                                20060719
                                           CN 2004-80016539
                                                                  20040604
     JP 2006527244
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                                                                   20040604
     US 2006121034
                         A1
                                20060608
                                           US 2005-560092
                                                                   20051209
PRIORITY APPLN. INFO.:
                                           GB 2003-13772
                                                               A 20030613
                                                               W 20040604
                                           WO 2004-GB2381
OTHER SOURCE(S):
                        MARPAT 142:49251
     159752-10-0 159752-10-0D, salts
     RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
     THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (as growth hormone secretagogue; growth hormone secretagogue
        combination with agent modifying production or processing of AB in
        brain in treatment for Alzheimer's disease and related
        conditions)
RN
     159752-10-0 HCAPLUS
CN
     Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-
     indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-
     methyl-, methanesulfonate (1:1) (CA INDEX NAME)
     CM
          1
     CRN
          159634-47-6
         C27 H36 N4 O5 S
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75-75-2 CRN CMF C H4 O3 S

RN

159752-10-0 HCAPLUS
Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME) CN

CM 1

CRN 159634-47-6 CMF C27 H36 N4 O5 S

CRN 75-75-2 CMF C H4 O3 S

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 12

ED Entered STN: 18 Oct 2004

AB The invention discloses the treatment or prevention of diseases involving deposition of β -amyloid in the brain, e.g. Alzheimer's disease, via the combined administration of a growth hormone secretagogue and a PDE4 inhibitor.

ACCESSION NUMBER: 2004:857402 HCAPLUS

DOCUMENT NUMBER: 141:325764

TITLE: Growth hormone secretagogue-phosphodiesterase 4

inhibitor combination for the treatment of

Alzheimer's disease

INVENTOR(S): Castro Pineiro, Jose Luis

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE				
WO 2004087157	A2	20041014	WO 2004-GB1435	20040401				
WO 2004087157	A3	20041118						
אוי אב אם אד	7\M 7\1	מכו ליג זות יו	DD. DO DD DW DV	D.F. G.B. GYY				

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB; BG, BR, BW, BY, BZ, CA, CH,

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             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
             SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
             TD, TG
     AU 2004226698
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                                             AU 2004-226698
                          A1
                                                                     20040401
                                             CA 2004-2521046
     CA 2521046
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     CN 1764457
                          A
                                 20060426
                                             CN 2004-80008035
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     EP 1660086
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                                             EP 2004-725099
                                                                     20040401
                          A2
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             IE, SI, LT, LV, FI, RO, CY,
                                          TR, BG, CZ, EE, HU, PL, SK
     JP 2006522084
                          Т
                                             JP 2006-506077
                                 20060928
                                                                     20040401
                                             US 2005-552367
     US 2006183764
                          A1
                                 20060817
                                                                     20051003
PRIORITY APPLN. INFO.:
                                             GB 2003-7863
                                                                     20030404
                                             WO 2004-GB1435
                                                                     20040401
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IT 159752-10-0 770710-32-2

> RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(growth hormone secretagogue-phosphodiesterase 4 inhibitor combination for treatment of Alzheimer's disease)

RN 159752-10-0 HCAPLUS

Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-CN indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM

CRN 159634-47-6 CMF C27 H36 N4 O5 S

Absolute stereochemistry.

CM

CRN 75-75-2 CMF C H4 O3 S

RN 770710-32-2 HCAPLUS

CN 1,8-Naphthyridine-3-carboxamide, N-cyclopropyl-1,4-dihydro-1-[3-[(1-oxido-3-pyridinyl)ethynyl]phenyl]-4-oxo-, mixt. with 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]'-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methylpropanamide (9CI) (CA INDEX NAME)

CM 1

CRN 500355-52-2 CMF C25 H18 N4 O3

CM 2

CRN 159634-47-6 CMF C27 H36 N4 O5 S

Absolute stereochemistry.

L11 ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 13 ED Entered STN: 24 Sep 2004

GI

The invention discloses the use of I, or a pharmaceutically acceptable salt thereof, for the manufacture of a medicament for the treatment of AB age-related cognitive decline or mild cognitive impairment, in particular with a view to preventing or delaying the onset of Alzheimer's disease.

Ι

ACCESSION NUMBER:

2004:780537 HCAPLUS

DOCUMENT NUMBER:

141:271591

TITLE:

Method using a methanesulfonylspiroindolepiperidine derivative for treating mild cognitive impairment and

for preventing or delaying Alzheimer's

disease

INVENTOR (S):

Shearman, Mark Steven; Turner, Mervyn

PATENT ASSIGNEE(S):

Merck Sharp & Dohme Limited, UK; Merck & Co. Inc.

SOURCE:

PCT Int. Appl., 23 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

Patent

LANGUAGE:

English

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIN	KIND DATE			APPLICATION NO.						DATE			
WO 20040804	A1	Δ1 20040923			WO 2004-GB983					20040308				
			AT, AU,											
			CZ, DE,											
GE,	GH, G	M, HR,	HU, ID,	· IL,	IN,	IS,	JΡ,	KΕ,	KG,	KΡ,	KR,	KZ,	LC,	
			LU, LV,											
			PH, PL,											
			TT, TZ,											
			LS, MW,	-	-	-		•	•	•		•		
			RU, TJ,											
			GR, HU,											
			CF, CG,											
	TG									-		_	•	
AU 20042188	71	A1	2004	0923		AU 20	004-	2188	71		20	0040	308	
CA 2518886		A1	2004	0923		CA 20	004-	25188	386		20	0040	308	
EP 1605940		Al	2005	1221	:	EP 20	004-	71834	41		20	040	308	
R: AT,	BE, CI	i, DE,	DK, ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
IE,	SI, L	r, Lv,	FI, RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	PL,	SK	
BR 20040082														
CN 1794992		Α	2006	0628	(CN 20	004-	80006	5962		20	040	308	
JP 20065203	71	T	2006	0907								040	308	

NO 2005004714 A 20051116 NO 2005-4714 20051013 US 2006241133 A1 20061026 US 2006-549839 20060622 PRIORITY APPLN. INFO.: US 2003-454589P P 20030314 WO 2004-GB983 A 20040308

IT 159634-47-6 159752-10-0

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(methanesulfonylspiroindolepiperidine derivative for treating mild cognitive impairment and preventing or delaying Alzheimer's disease)

RN 159634-47-6 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 159634-47-6 CMF C27 H36 N4 O5 S

Absolute stereochemistry.

CM

CRN 75-75-2 CMF C H4 O3 S

REFERENCE COUNT:

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 14

ED Entered STN: .04 Jun 2004

The invention discloses methods for promoting neurogenesis by contacting AB neuronal tissue with intracellular cAMP-elevating agents and intracellular calcium ion-elevating agents. Agents for promoting neurogenesis are also disclosed.

ACCESSION NUMBER: 2004:453015 HCAPLUS

22

DOCUMENT NUMBER: 141:17632

TITLE: Methods and agents elevating cAMP and calcium ion for

increasing neurogenesis

INVENTOR (S): Bertilsson, Goran; Erlandsson, Rikard; Frisen, Jonas;

Haegestrand, Anders; Heidrich, Jessica; Hellstrom, Kristina; Haggblad, Johan; Jansson, Katarina; Kortesmaa, Jarkko; Lindquist, Per; Lundh, Hanna; McGuire, Jacqueline; Mercer, Alex; Njberg, Karl; Ossoinak, Amina; Patrone, Cesare; Ronnholm, Harriet;

Zachrisson, Olof; Wikstrom, Lilian

PATENT ASSIGNEE(S):

Neuronova AB, Swed. SOURCE:

PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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KIND
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    WO 2004045592
                         A2
                               20040603
                                           WO 2003-IB5311
                                                                  20031120
    WO 2004045592
                         A3
                               20041104
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            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
            NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
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                         A1
                               20050909
                                           CA 2004-2546843
                                                                  20041119
    WO 2005081619
                         A2
                               20050909
                                           WO 2004-IB4451
                                                                 20041119
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        SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
            NE, SN, TD, TG
    EP 1750752
                         A2
                               20070214
                                          EP 2004-821493
                                                                  20041119
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            IS, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, HR, LT,
            LV, MK, YU
PRIORITY APPLN. INFO.:
                                           US 2002-427912P
                                                               P 20021120
                                           US 2003-718071
                                                              A 20031120
                                           WO 2003-IB305311
                                                              A 20031120
                                           WO 2003-IB5311
                                                              W 20031120
                                           US 2004-850055
                                                              Α
                                                                 20040519
                                           WO 2004-IB4451
                                                              W
                                                                 20041119
IT
     159752-10-0, MK-677
    RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (cAMP-elevating and calcium ion-elevating compds. for increasing
       neurogenesis)
RN
     159752-10-0 HCAPLUS
     Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-
CN
     indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-
    methyl-, methanesulfonate (1:1) (CA INDEX NAME)
    CM
    CRN
         159634-47-6
         C27 H36 N4 O5 S
     CMF
```

Absolute stereochemistry.

CM 2

CRN 75-75-2 CMF C H4 O3 S

L11 ANSWER 18 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 15 Apr 2004 GI

AB Aryl cyclohexyl sulfones (shown as I; variables defined below; e.g. II) inhibit the processing of APP by γ -secretase, and hence are useful in treatment of Alzheimer's disease. For I: X = SCN, SR1, S(0)R1, (CRaRb)mSO2R1, SO2N(R2)2, SO2NHCOR1, SO2NHN(R2)2, OSO2N(R2)2, OS(O)N(R2)2, OSO2NHCOR1, COR4, NHCOR1, NHCO2R1, NHCON(R2)2, NHSO2R1 or NHSO2N(R2)2; L = a bond, :CH- or -(CHRa)n- with provisos; n = 1-3; Ar1 and Ar2 = Ph or heteroaryl, either of which bears 0-3 halogen, CN, NO2, CF3, CHF2, OH, OCF3, CHO, CH:NOH, C1-4-alkoxy, C1-4-alkoxycarbonyl, C2-6-acyl, C2-6-alkenyl, and C1-4-alkyl; Ra = H, alkyl; Rb = H, alkyl, CO2H, alkoxycarbonyl, alkylsulfonyl; R1 = CF3, (substituted) alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, aryl(alkyl), heterocyclyl(alkyl); R2 = H, (substituted) alkoxy, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl; R3 = H, alkyl, Ph, heteroaryl; R4 = CRaRbSO2R1, pyridine N-oxide, substituted Ph, heteroaryl; addnl. details are given in the claims. Although the methods of preparation are not claimed, example prepns. and/or characterization data are included for <180 examples of I and some intermediates. For example, II was prepared from excess aniline and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanesulfonyl chloride, which was prepared from SO2Cl2, KNO3 and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5difluorophenyl)cyclohexyl]methanethiol, which was prepared from in 2 steps from iodo [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5difluorophenyl)cyclohexyl]methane, which was prepared photochem. from [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid, iodoisobenzene diacetate and I2. The examples all had an ED50 against γ -secretase of <1 μ M, typically <0.5 μ M, in most cases <100 nM, and in preferred cases <10 nM.

ACCESSION NUMBER: 2004:308409 HCAPLUS

DOCUMENT NUMBER: 140:321108

TITLE: Preparation of aryl cyclohexyl sulfones as

γ-secretase inhibitors useful against

Alzheimer's disease

INVENTOR(S): Churcher, Ian; Harrison, Timothy; Kerrad, Sonia;

Oakley, Paul Joseph; Shaw, Duncan Edward; Teall,

Martin Richard; Williams, Susannah

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIN			KIN	(ND DATE			APPLICATION NO.					DATE					
WO 2004031137			A1 20040415				WO 2	 003 <i>-</i> 0	GR41	20020025							
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WO 2003-GB4102

OTHER SOURCE(S):

MARPAT 140:321108

471903-69-2, [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-

difluorophenyl)cyclohexyl]acetic acid

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of aryl cyclohexyl sulfones as γ-secretase inhibitors

useful against Alzheimer's disease)

RN 471903-69-2 HCAPLUS

Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-CN

difluorophenyl) -, cis- (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

1

ED Entered STN: 07 Mar 2003

GI

AB Title sulfones I [wherein m = 0-1; Z = CN, OR2, CO2R2, or CON(R2)2; R1 = H, alkyl, or OH; R2 and R4 = independently H or (un) substituted alkyl, cycloalkyl(alkyl), alkenyl, or (hetero)aryl; or N(R2)2 or N(R4)2 = independently (un) substituted heterocyclyl; R3 = H or alkyl; or pharmaceutically acceptable salts thereof] were prepared For example, oxidative coupling of 4-chlorothiophenol with 2,5-difluorobenzyl bromide gave 1-[[(4-chlorophenyl)sulfonyl]methyl]-2,5-difluorobenzene. Reaction

with Me acrylate and KOBu in THF, followed by heating to 150° for 2 h in a solution of DMSO, NaCl, and H2O afforded 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexanone. Condensation of the ketone with Et (diethoxyphosphinyl) acetate in the presence of NaH in THF provided the alkylidene derivative (88%), which was reduced with NaBH4 to give (cis)-II (36%). I modulate the processing of amyloid precursor protein by γ -secretase and hence are useful in the treatment or prevention of Alzheimer's disease (no data).

ACCESSION NUMBER:

2003:173575 HCAPLUS

DOCUMENT NUMBER: 138:221350

TITLE: Preparation of 1-phenyl-1-(arylsulfonyl)cyclohexanes

for treatment of Alzheimer's disease

INVENTOR(S): Churcher, Ian; Dinnell, Kevin; Harrison, Timothy;

Kerrad, Sonia; Nadin, Alan John; Oakley, Paul Joseph; Shaw, Duncan Edward; Teall, Martin Richard; Williams,

Brian John; Williams, Susannah Merck Sharp & Dohme Limited, UK

PCT Int. Appl., 39 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

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OTHER SOURCE(S): IT 471903-69-2P

MARPAT 138:221350

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(anti-Alzheimer's agent; preparation of phenylcyclohexyl aryl sulfones for treatment of Alzheimer's disease)

RN 471903-69-2 HCAPLUS

CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5difluorophenyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

2

ED Entered STN: 18 Oct 2002

GI

AB Title compds. I [R1 and R2 together from a (un)substituted saturated or unsatd. ring of 4-7 atoms of which at most 2 are selected from N, O, and S with the remaining being C; Ar1 and Ar2 independently equal (un)substituted aryl or heteroaryl] and their pharmaceutically acceptable salts are disclosed as modulators of gamma secretase (no data). Thus, II was prepared via condensation of 4-chlorothiophenol with 2,5-difluorobenzyl bromide, oxidation of intermediate thioether and subsequent cyclization with Me acrylate. As modulators of the action of g-secretase, I are useful in the treatment or prevention of Alzheimer's disease.

ACCESSION NUMBER: 2002:793593 HCAPLUS

DOCUMENT NUMBER: 137:310695

TITLE: Preparation of aryl sulfones which modulate the action

of gamma secretase

INVENTOR(S): Castro Pineiro, Jose Luis; Churcher, Ian; Dinnell, Kevin; Harrison, Timothy; Kerrad, Sonia; Nadin, Alan

John; Oakley, Paul Joseph; Owens, Andrew Pate; Shaw, Duncan Edward; Teall, Martin Richard; Williams, Brian

John; Williams, Susannah

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK SOURCE: PCT Int. Appl., 159 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE			
WO 000001405						
WO 2002081435		WO 2001-GB3741	20010821			
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		DZ, EC, EE, ES, FI,				
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		IE, IT, LU, MC, NL,				
		GQ, GW, ML, MR, NE,				
CA 2442882	A1 20021017		20010821			
AU 2001279971	A1 20021021		20010821			
EP 1379498	A1 20040114		20010821			
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CA 2456420	A1 20030306					
WO 2003018543	A1 20030306		20020816			
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		CG, CI, CM, GA, GN,				
NE, SN, TD,		,,,,	- L,			
EP 1421062	A1 20040526	EP 2002-758542	20020816			
		GB, GR, IT, LI, LU,				
		CY, AL, TR, BG, CZ,				
BR 2002011635	A 20040713					
CN 1545501	A 200417110		20020816			
	A2 20041110	HU 2004-1241	20020816 20020816			
JP 2005501120 JP 3711131	T 20050113 B2 20051026		20020816			
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NZ 530581 US 2003114496	A 20060428		20020816			
			20020820			
US 6984663	B2 20060110					
US 2004116404	A1 20040617		20031001			
IN 2004CN00345	A 20051223		20040219			
NO 2004001185	A 20040319		20040319			
US 2006041020	A1 20060223		20051028			
PRIORITY APPLN. INFO.:		GB 2001-8591	A 20010405			
		GB 2001-20347	A 20010821			
		WO 2001-GB3741	W 20010821			
		WO 2002-GB3806	W 20020816			
		US 2002-223993	A1 20020820			
OTHER SOURCE(S):	MARPAT 137:3106	95				

OTHER SOURCE(S): MARPAT 137:310695 IT 471903-69-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses) (drug candidate; preparation of aryl sulfones as modulators of gamma secretase useful for the treatment of Alzheimer's disease)

RN 471903-69-2 HCAPLUS

CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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1340413 GROWTH

287715 HORMONE

89 SECRETOGOGUE

L12 1 GROWTH (W) HORMONE (W) SECRETOGOGUE

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FULL ESTIMATED COST	144.40	494.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE	-15.60	-15.60

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